

REMARKS

Allowable Subject Matter

Applicants gratefully acknowledge the allowance of claims 1-10 and 19-22. Applicants also gratefully acknowledge the allowable subject matter in claims 14 and 15, which have been objected to as being dependent upon a rejected base claim. In accordance with Examiner's suggestion, claims 14 and 15 are herewith rewritten in independent form including all of the limitations of the base claim and any intervening claims. Furthermore, the preamble in claims 14 and 15 are herewith amended to recite "[a] method of disposing substrates" from "[a] method of disposing a substrate" to correspond to the "at least two substrates" recited in the body of the claims. Claims 14 and 15 are now in condition for allowance.

Specification

In accordance with Examiner's suggestion, the phrase "Disclosed herein is" within the abstract of the disclosure located within paragraph 0050, page 17, line 1 of the application is herewith deleted.

The disclosure of the application has been objected to because of informalities. The disclosure is amended in accordance with Examiner's suggestions to correct the informalities as follows:

Paragraph 0029, page 7, line 31, the reference numeral "14" second occurrence is herewith amended to read "16"; paragraph 0030, page 8, line 15, "laser dot generator" is herewith amended to read "laser line generator"; paragraph 0032, page 9, lines 14-15, the phrase "will appear as a being lighter" is herewith amended to read "will appear as being brighter"; paragraph 0033, page 9, line 26, the phrase "As will be discussed in greater" is herewith amended to "As will be discussed in greater detail"; paragraph 0034, page 10, line 7, a dot (--- punctuation mark) is herewith inserted after "angle"; and paragraph 0043, page 12, line 13, "Figure 3" is herewith amended to read "Figure 5."

Claim Rejections – 35 USC 102

Claims 11, 12, 17 and 18 have been rejected under 35 U.S.C. 102(b) as being anticipated by *Hara et al.* (US Patent 6,141,863).

Claim 11 is herewith amended to more concisely claim Applicants' invention. Amended claim 11 recites "projecting a laser line onto a side of at least two *adjoined* substrates from a laser line generator, wherein the laser line *intersects at least one joint* of the at least two *adjoined* substrates." *emphasis added*

The invention disclosed in *Hara et al* is directed to a force-controlled robot system with a visual sensor capable of performing a fitting operation. *Hara et al* discloses projecting a structured light onto the concave portion 81 of the receiving workpiece 8 and an end of a convex portion 71 of the fit-in workpiece 7. The structured light is used for correcting the position and orientation of the robot 1 *before* the insertion thereof, and also used as an inserting action confirming means after the inserting action. (Column 4, lines 36-45) *emphasis added*

Applicants' invention patentably distinguishes over *Hara et al.* In applicants' invention the laser line is projected onto a *side* of at least two *adjoined* substrates, and in addition, the laser line intersects at least one joint of the at least two *adjoined* substrates. The laser line is utilized to determine if the substrates are aligned relative to each other prior to stuffing into a shell. If the substrates are aligned, the laser line will appear to be unbroken to a viewing source. If the substrates are not aligned, the laser line will appear to be broken and shifted where it crosses the plane representing the adjoining faces of the substrates. The disclosure for claim 11 can be at least found in paragraphs 0033-0035 and in Figs. 3-5.

Hara et al does not disclose projecting a laser line onto a side of at least two *adjoined* substrates from a laser line generator, wherein the laser line intersects at least one joint of the at least two *adjoined* substrates; verifying an alignment of the at least two substrates from a viewing source; and stuffing the at least two substrates into a housing. Amended claim 11 patentably distinguishes over *Hara et al*, reconsideration and withdrawal of the rejection of claim 11 is respectfully requested.

Claims 12, 17, and 18 are ultimately dependent on amended independent claim 11. Applicants respectfully submit that currently amended claim 11 patentably distinguishes over *Hara et al* for the reasons stated above; therefore, withdrawal of the rejections of claims 12, 17, and 18 is respectfully requested.

Claims Rejection – 35 USC 103

Claim 13 and 16 have been rejected under 35 U.S.C. 103(a) as being unpatentable over *Hara et al*. (US Patent 6,141,863). Claim 13 is herewith amended to recite “the at least one joint” and claim 16 is herewith canceled.

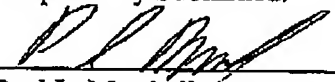
Claim 13 is dependent upon amended independent claim 11. Applicants respectfully submit that currently amended claim 11 patentably distinguishes over *Hara et al* for the reasons stated above; therefore, withdrawal of the rejection of claims 13 is respectfully requested.

CONCLUSION

In view of the foregoing, Applicants submit that claims 1-10, 14-15, and 19-22 are in condition for allowance, claims 11-13 and 17-18 are allowable for the reasons stated above, and claim 16 is canceled. Notice of Allowance is courteously solicited for claims 1-15 and 17-22. If it is determined that prosecution of this case can be advanced by telephone, the Examiner is invited to telephone the undersigned at the number below.

Please charge any necessary fees, including any extension of time, or any other fee deficiencies to Delphi Technologies, Inc., Deposit Account No. 50-0831.

Respectfully Submitted:


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PLM